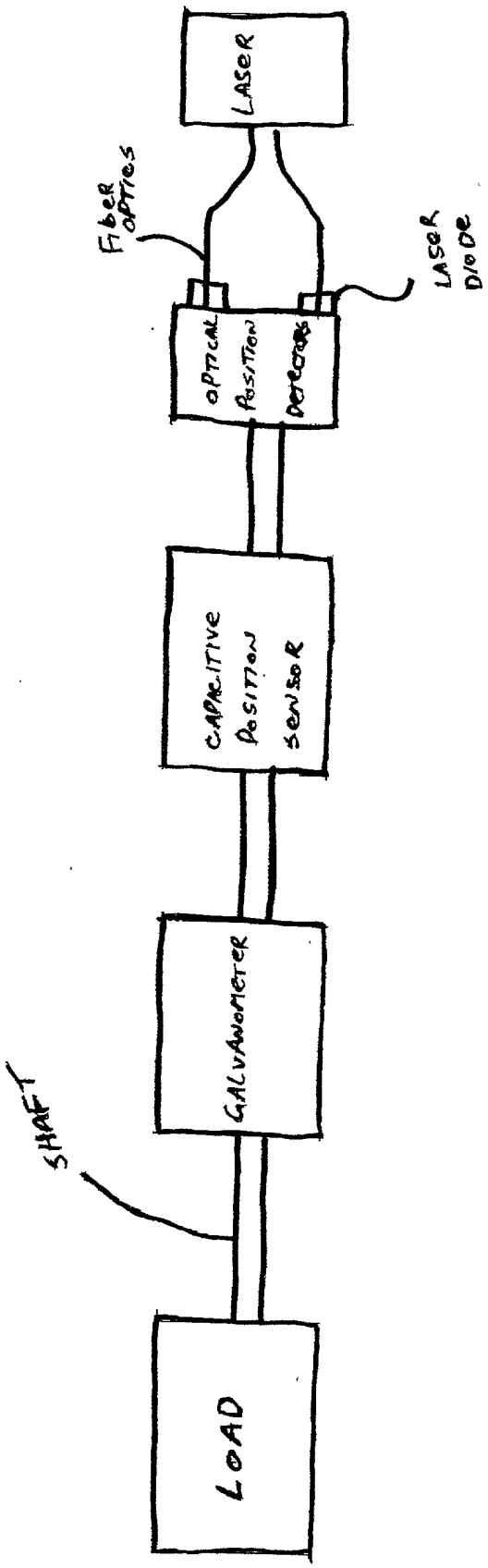

LASER
FIBER OPTICS
LASER DIODE
OPTICAL POSITION DETECTORS
CAPACITIVE POSITION SENSOR
GALVANOMETER
SHAFT
LOAD

FIG 1


LASER
LOAD
CAPACITIVE POSITION SENSOR (TO BE CORRECTED)
SERVO MOTOR

FIG 2

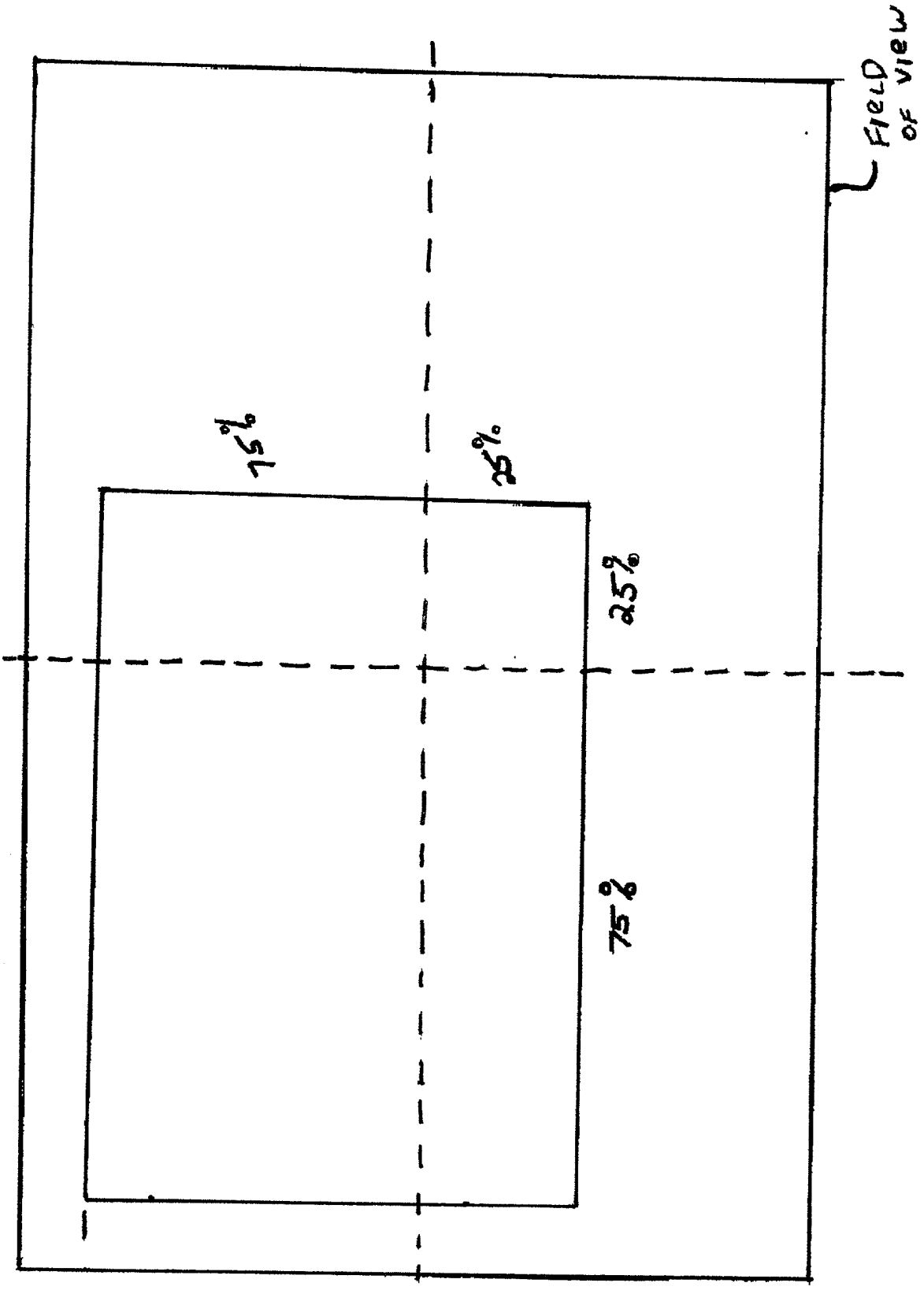



FIG 3

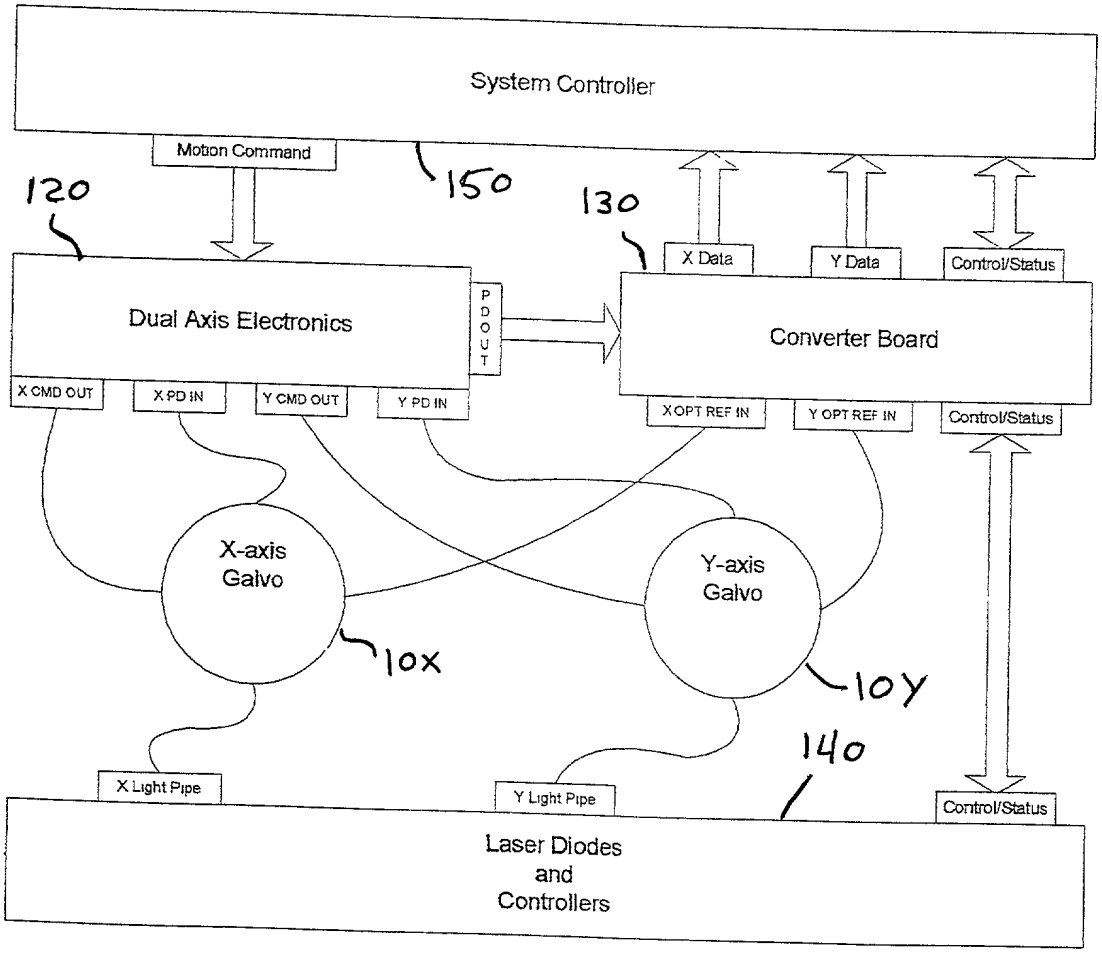

System Controller
Motion Command
150
120
130
X Data
Y Data
Control/Status
Dual Axis Electronics
PDOUT
Converter Board
X CMD OUT
X PD IN
Y CMD OUT
Y PD IN
X OPT REF IN
Y OPT REF IN
Control/Status
X-axis Galvo
Y-axis Galvo
10X
10Y
140
X Light Pipe
Y Light Pipe
Control/Status
Laser Diodes and Controllers

Fig 4